

<120> ANTISENSE MODULATION OF PHOSPHOLIPID SCRAMBLASE 3 EXPRESSION

<160> 94

<211> 20

<212> DNA

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Antisense Oligonucleotide

<400> 1

tccgtcatcg ctctcaggg

20

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Antisense Oligonucleotide

<400> 2

atgcattctg cccccaagga

~~20~~

&lt;210&gt; 3

&lt;211&gt; 1680

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;220&gt;

&lt;221&gt; CDS

&lt;222&gt; (144) ... (1031)

&lt;400&gt; 3

cgggggccggg gtccgagctc gggcccgccct ccgcctccgc cagctcctgt gagctgccga 60

gtgctaggca ccggggctct tctggggggt ccagaactaa gccacccaga caccatcatc 120

tcgaaaaccc cagcccttct ccc atg gca ggc tac ttg ccc ccc aaa ggc tac 173

Met Ala Gly Tyr Leu Pro Pro Lys Gly Tyr

1

5

10

gcc cct tcg ccc cca cct ccc tac cct gtc acc cct ggg tac ccg gag 221

Ala Pro Ser Pro Pro Pro Pro Tyr Pro Val Thr Pro Gly Tyr Pro Glu

15

20

25

ccg gcg cta cat cct ggg ccc ggg cag gcg cca gtg ccc gcc cag gta 269

Pro Ala Leu His Pro Gly Pro Gly Gln Ala Pro Val Pro Ala Gln Val

30

35

40

cct gcc cca gct ccc ggc ttc gcc ctc ttc ccc tcg cct ggc ccc gtg 317

Pro Ala Pro Ala Pro Gly Phe Ala Leu Phe Pro Ser Pro Gly Pro Val

45

50

55

gcc ttg ggg tct gct gcc ccc ttc ttg cca ctg cca ggg gtg cct tct 365

Ala Leu Gly Ser Ala Ala Pro Phe Leu Pro Leu Pro Gly Val Pro Ser

60

65

70

ggc ctc gaa ttc ctg gtg cag att gat cag att ttg att cac cag aag 413

Gly Leu Glu Phe Leu Val Gln Ile Asp Gln Ile Leu Ile His Gln Lys

75

80

85

90

gct gag cga gtg gaa acg ttc cta ggc tgg gag acc tgt aat cgg tat	461
Ala Glu Arg Val Glu Thr Phe Leu Gly Trp Glu Thr Cys Asn Arg Tyr	
95 100 105	
gaa ctg cgc tct ggg gcc ggg cag ccc ctg ggt cag gcg gcc gag gag	509
Glu Leu Arg Ser Gly Ala Gly Gln Pro Leu Gly Gln Ala Ala Glu Glu	
110 115 120	
agc aac tgc tgc gcc cgt ctg tgc tgt ggc gcc cgc cgg ccg ctg cgt	557
Ser Asn Cys Cys Ala Arg Leu Cys Cys Gly Ala Arg Arg Pro Leu Arg	
125 130 135	
gtc cgc ctg gcc gac ccc ggg gac cgt gag gtg ctg cgt ttg ctc cgc	605
Val Arg Leu Ala Asp Pro Gly Asp Arg Glu Val Leu Arg Leu Leu Arg	
140 145 150	
ccg ctg cac tgt ggc tgc agc tgc tgc ccc tgt ggc ctc cag gag atg	653
Pro Leu His Cys Gly Cys Ser Cys Cys Pro Cys Gly Leu Gln Glu Met	
155 160 165 170	
gaa gta cag gct cca cca ggc acc acc att ggc cac gtg cta cag acc	701
Glu Val Gln Ala Pro Pro Gly Thr Thr Ile Gly His Val Leu Gln Thr	
175 180 185	
tgg cat ccc ttc ctc ccc aag ttc tcc atc cag gat gcc gat cgc cag	749
Trp His Pro Phe Leu Pro Lys Phe Ser Ile Gln Asp Ala Asp Arg Gln	
190 195 200	
aca gtc ttg cga gtg gtg ggg ccc tgc tgg acc tgt ggc tgt ggc aca	797
Thr Val Leu Arg Val Val Gly Pro Cys Trp Thr Cys Gly Cys Gly Thr	
205 210 215	
gac acc aac ttt gag gtg aag act cgg gat gaa tcc cgc agt gtg ggc	845
Asp Thr Asn Phe Glu Val Lys Thr Arg Asp Glu Ser Arg Ser Val Gly	
220 225 230	
cgc atc agc aag cag tgg ggg ggc ctg gtc cga gaa gcc ctc aca gat	893

1006972 2269000T

Arg Ile Ser Lys Gln Trp Gly Gly Leu Val Arg Glu Ala Leu Thr Asp  
235 240 245 250

gca gat gac ttt ggc cta cag ttc ccg ctg gac ctg gat gtg agg gtg 941  
Ala Asp Asp Phe Gly Leu Gln Phe Pro Leu Asp Leu Asp Val Arg Val  
255 260 265

aag gct gtg ctg ctg gga gcc aca ttc ctc att gac tac atg ttc ttt 989  
Lys Ala Val Leu Leu Gly Ala Thr Phe Leu Ile Asp Tyr Met Phe Phe  
270 275 280

gag aag cga gga ggc gct ggg ccc tct gcc atc acc agt tag aggccacat 1041  
Glu Lys Arg Gly Gly Ala Gly Pro Ser Ala Ile Thr Ser  
285 290 295

ggtgtgagga gaccatcacc tcgaccagaa ctccagatgg tçacctgccc tggcccctcc 1101  
tctgggcagc ccctttcctc catgtacact gcaggggaca gaaggggggc cccatcccta 1161  
ccctactccc tggccgcctg cccctgtggt tcccaaggag gggatatgtat gagagccgct 1221  
ctcctgctac ctcccaccac tgtcccagca gtccctcggc acacaggcat atcagctttc 1281  
acactttccc catgcactct ctcccacccc cttccagggc ctctgctcca aaggaggcct 1341  
ctggaaccca ggactctggg gttttacaag agggctgggg tgtggaaggg caagctgcac 1401  
caaagacggt ggatatagcc accgcccccc cgccgctgcc tagcatctgc ttggccaatt 1461  
agttcagcct cagaccatgg cactttgagg gggctctctac ctccccatca acagctgcag 1521  
ggggacccca gtgccaactt cctctccccc tagggccctg ccttcagctg gtgcttgctg 1581  
cgattcctgt gccttatgta actgcccttc cttcccttgc cctaggaaaa aggctgcac 1641  
tttatatgtt acattcatat aaactttgta actttttgg 1680

<210> 4

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 4

gtccgagaag ccctcacaga

20

<210> 5

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 5

gccttcaccc tcacatcca

19

<210> 6

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Probe

<400> 6

cagatgactt tggcctacag ttcccgc

27

<210> 7

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR Primer

<400> 7

gaaggtgaag gtcggagtc

19

<210> 8

<211> 20

<212> DNA

<213> Artificial Sequence

**<220>**

<223> PCR Primer

<400> 8

gaagatggtg atgggatttc

20

<210> 9

<211> 20

<212> DNA

<213> Artificial Sequence

$\langle 220 \rangle$

<223> PCR Probe

<400> 9

caagcttccc gttctcagcc

20

<210> 10

<211> 596

<212> DNA

<213> Homo sapiens

<220>

<221> exon:exon junction

<222> (333) ... (334)

<223> exon 5:exon 6b

<221> exon:exon junction

<222> (423) ... (424)

<223> exon 6b:exon 7

<400> 10

ttgggggtctg	ctgccccctt	cttgccactg	ccaggggtgcc	ttctggcctc	gaattcctgg	60
tgcagattga	tcagattttg	attcaccaga	aggctgagcg	agtggaaacg	ttcctagtgc	120
tgggagacct	gtaatcggtg	tgaactgcgc	tctggggcct	gggcagcccc	tgggtcaggc	180
ggccgaggag	agcaactgct	gcgcccgtct	gtgctgtggc	tgcccgcggg	cctgctgcgt	240
gtccgcctgg	ccgaccccgg	ggaccgtgag	gtgctgcgtt	tgctccgccc	gctgcaactgt	300
ggctgcagct	gctgccccctg	tggcctccag	gagttctcca	tccaggatgc	cgatcgccag	360
acagtcttgc	gagtgggtggg	gccctgctgg	acctgtggct	gtggcacaga	caccaacttt	420
gaggtgaaga	ctcgggatga	atcccgcagt	gtgggccgca	tcagcaagca	gtgtggggggg	480
cctggtccga	gaagccctca	cagatgcaga	tgactttggc	ctacagttcc	cgctggacct	540
ggatgtgagg	gtgaaggctg	tgctgctggg	agccacattc	ctcatttgac	tactgt	596

<210> 11

<211> 000

<212> DNA

<213> Homo sapiens

<220>

<400> 11

000

<210> 12

<211> 000

<212> DNA

<213> Homo sapiens

<220>

<400> 12

000

&lt;210&gt; 13

&lt;211&gt; 000

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;400&gt; 13

000

&lt;210&gt; 14

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 14

cggcagctca caggagctgg

20

&lt;210&gt; 15

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 15

gcactcggca gctcacagga

20

F01H01/00



<210> 16

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 16

tgccctagcac tcggcagctc

20

<210> 17

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 17

tggcttagtt ctggagcccc

20

<210> 18

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 18

tggtgtctgg gtggcttagt

20

RTS-0335

<210> 19

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 19

tcgagatgat ggtgtctggg

20

<210> 20

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 20

gcaagtagcc tgccatggga

20

<210> 21

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 21

gccagaaggc acccctggca

20

RTS-0335

<210> 22

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 22

tctgatcaat ctgcaccagg

20

<210> 23

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 23

cttctggtga atcaaaatct

20

<210> 24

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 24

Sequence = 225000

tccactcgct cagccttctg

20

<210> 25

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 25

acgtttccac tcgctcagcc

20

<210> 26

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 26

gtctcccagc ctaggaacgt

20

<210> 27

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

Patent 2000/000001

&lt;400&gt; 27

tacaggtctc ccagcctagg

20

&lt;210&gt; 28

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 28

accgattaca ggtctcccag

20

&lt;210&gt; 29

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 29

agcgcagttc ataccgatta

20

&lt;210&gt; 30

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

T U H C E 2 2 6 3 0 0 4

&lt;400&gt; 30

cccagagcgc agttcataacc

20

&lt;210&gt; 31

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 31

agcaaacgca gcacctcacg

20

&lt;210&gt; 32

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 32

cagtgcagcg ggcggagcaa

20

&lt;210&gt; 33

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Antisense Oligonucleotide

<400> 33

cagccacagt gcagcgggcg

20

<210> 34

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 34

gggcagcagc tgcagccaca

20

<210> 35

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 35

caatggtggt gcctggtgga

20

<210> 36

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 36

aggtctgtag cacgtggcca

20

<210> 37

<211> 20

<212> DNA

<213> Artificial Sequence

**<220>**

<223> Antisense Oligonucleotide

<400> 37

ggatgccagg tctgtagcac

20

<210> 38

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 38

ggaagggatg ccaggtctgt

20

<210> 39

<211> 20

<212> DNA

### <213> Artificial Sequence

[illegible]



**<220>**

<223> Antisense Oligonucleotide

<400> 39

agggccccac cactcgcaag

20

<210> 40

<211> 20

<212> DNA

<213> Artificial Sequence

**<220>**

<223> Antisense Oligonucleotide

<400> 40

tgtgccacag ccacaggtcc

20

<210> 41

<211> 20

<212> DNA

<213> Artificial Sequence

**<220>**

### <223> Antisense Oligonucleotide

<400> 41

ttggtgtctg tgccacagcc

20

<210> 42

<211> 20

<212> DNA

<213> Artificial Sequence

[illegible]

<220>

<223> Antisense Oligonucleotide

<400> 42

ttcacctcaa agttggtgtc

20

<210> 43

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 43

tgcgggattc atcccgagtc

20

<210> 44

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 44

ttgctgatgc ggcccacact

20

<210> 45

<211> 20

<212> DNA

RTS-0335

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 45

actgcttgct gatgcggccc

20

<210> 46

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 46

ggcttctcgg accaggcccc

20

<210> 47

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 47

atctgtgagg gcttctcgga

20

<210> 48

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 48

tcatctgcat ctgtgagggc

20

<210> 49

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 49

ccaaagtcat ctgcatctgt

20

<210> 50

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 50

ttcaccetca catccaggtc

20

<210> 51

Patent 200001

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 51

tcccagcagc acagccttca

20

<210> 52

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 52

acatgtagtc aatgaggaat

20

<210> 53

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 53

cttctcaaag aacatgtagt

20

RTS-0335

<210> 54

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 54

cgctctctcg cttctcaaag

20

<210> 55

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 55

taactggtga tggcagaggg

20

<210> 56

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 56

tggtggcctc taactggtga

20

RTS-0335-22-PATENT

<210> 57

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 57

tctcctcaca ccatggtggc

20

<210> 58

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 58

tggtcgaggt gatggtctcc

20

<210> 59

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 59

aggtgaccat ctggagttct

20

Sequence

<210> 60

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 60

tacccctcct tgggaaccac

20

<210> 61

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 61

ctccttttga gcagaggccc

20

<210> 62

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 62



cagaggcctc ctttggagca

20

<210> 63

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 63

aaaccccaga gtcctggggtt

20

<210> 64

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 64

ttgtaaaacc ccagagtcct

20

<210> 65

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

&lt;400&gt; 65

cagccctctt gtaaaacccc

20

&lt;210&gt; 66

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 66

acaccccagc cctcttgtaa

20

&lt;210&gt; 67

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 67

gtggctatat ccaccgtctt

20

&lt;210&gt; 68

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 68

gggcgggtggc tatatccacc

20

&lt;210&gt; 69

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 69

aagtgccatg gtctgaggct

20

&lt;210&gt; 70

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Antisense Oligonucleotide

&lt;400&gt; 70

cctcaaagtg ccatggtctg

20

&lt;210&gt; 71

&lt;211&gt; 20

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Antisense Oligonucleotide .

<400> 71

acccccctcaa agtgccatgg

20

<210> 72

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 72

tgggagagga agttggcact

20

<210> 73

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 73

cctagtggga gaggaagttg

20

<210> 74

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 74

gctgaaggca gggccctagt

20

<210> 75

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 75

gcaagcacca gctgaaggca

20

<210> 76

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 76

tcgcagcaag caccagctga

20

<210> 77

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 77

aatcgagca agcaccagct

20

<210> 78

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 78

ggaagggcag ttacataagg

20

<210> 79

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 79

gcctttttcc tagggcaagg

20

<210> 80

<211> 20

<212> DNA

<213> Artificial Sequence







<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 86

000

<210> 87

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 87

ggatggagaa ctcttgagg

20

<210> 88

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 88

gagtcttcac ctcaaagttg

20

<210> 89

Patent = Sequence

<211> 000

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 89

000

<210> 90

<211> 000

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 90

000

<210> 91

<211> 000

<212> DNA

<213> Artificial Sequence

<220>

<223> Antisense Oligonucleotide

<400> 91

000

<210> 92

RTS-0335-263000

&lt;211&gt; 794

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;400&gt; 92

agctcctgtg agctgccgag tgctaggcac ccggggtctt ctggggggctc cagaactaag 60  
ccaaccacaga caccatcatc ccgaaaaccc cagcccttct cccttggcag attgatcaga 120  
tttgattcac cagaaggctg agcgagtga aaatggaagt acaggctcca ccaggcacca 180  
ccatggccac gtgctacaga cctggcatcc ctctctcccc aagttctcca tccaggatgc 240  
cgatgccag acagtctttc gagtgggtggg gccctgctgg acctgtggct gtggcacaga 300  
caccaacttt gaggtgaaga ctcgggatga atcccgagc gtggggccga tcagcaagca 360  
gtggggggggc ctggtccgag aagccctcac agatgcagat gactttggcc tacagttccc 420  
gctggacctg gatgtgaggg tgaaggctgt gctgctggga gccacattcc tcattgatac 480  
atgttctttg agaagcgagg aggcgctggg ccctctgcca tcaccagtta gaggccacca 540  
tggtgtgagg agaccatcac ctcgaccaga actccagatg gtcactgcct ggcctcctct 600  
ggggtcagcc ctttcctcca tgttactgc gggacagaat gggggggcca tcctacccta 660  
tctggcgctg ccctgtgctt cccacgctgg cttgcttgcc caccctcctt gccctcccc 720  
ccggccgctg tcccgcacc gcttcctccc ctccccggcc cccgccctcc gcgcccggcc 780  
gagccggccc cgcc 794

&lt;210&gt; 93

&lt;211&gt; 536

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;400&gt; 93

ctccgccagc tcctgtgagc tgccgagtgc taggcacccg ggctcttctg ggggctccag 60  
aggcgccgcc caagagacc tgggcccggc ccgggcgcag ctgcctctcc gtctttgtgt 120  
ctgtctctgt gtctgtctgg ctatctccga gtttgccctc gcttccagaa ctaagccacc 180  
cagacaccat catcccga aaacccagccc ttctcccatg gcaggctact tgccccccaa 240  
aggctacgcc ctttcgcccc caccctccta ccctgtcacc cctgggtacc cggagccggc 300  
gctacatcct gggcccgggc aggcgccagt gcccgcccag gtacctgccc cagctcccgg 360  
cttcgccctc ttcctctcgc ctggccccgt ggccttgggg tctgctgccc ccttcttgcc 420  
actgccaggg gtgccttctg gcctcgaatt cctggtgcag attgatcaga ttttgattca 480

ccagaaggct gagcgagtgg aaacgttcct aggctgggag acctgtaatc ggtatg 536

<210> 94

<211> 546

<212> DNA

<213> Homo sapiens

<220>

<400> 94

agcgggcttc cgccagctcc tgtgagctgc cgagtgctag gcacccgggc tcttctgggg 60  
gctccagtca gaggcgccgc ccaagagacc ctgggcgggc gccgggcgca gctgcctctc 120  
cgtctttgtg tctgtctctg tgtctgtctg gctatctccg agtttgctc cgcttccaga 180  
actaagccac ccagacacca tcattctgaa aacccagcc cttctcccat ggcaggctac 240  
ttgcccccca aaggctacgc cccttcgccc ccacctccct accctgtcac ccctgggtac 300  
ccgctgcgtg tccgcctggc cgaccccggg gaccgtgagg tgctgcgttt gctccgccc 360  
gtgcactggg ggcttcgagg tgtgttgccc ttggggcct ccaggagatg gatgtacggg 420  
ctccaccagg caccacctat gggccacgtg ctacagacct ggcattccct cctcccaaag 480  
ttctccatcc aggatgccga tcgccagaca gtcttgcgaa gtgggtggggc cctgcctgga 540  
cctgtg 546